G13045 AUDIO MIXING AMPLIFIER

WEIGHT: 0.5 LBS SIZE: 1.58 X 3.00 X 4.00

Supply Voltage: 28V DC Nominal.

16-48V with mic bias. 14-48V without mic bias.

Supply Current: 150mA Max per Mixer.

450mA Total. (@ 28V DC)

Input Impedance: 600Ω (11k Ω with gnd/bias

jumper removed)

Output Impedance: $< 20\Omega$

Output Signal: 5VRMS into 600Ω nominal.

Current limit 30mA.

Mic Bias Selection: Jumper for each input: 600Ω

to ground/600 Ω to bias voltage/unterminated input

4.00 3.50

Mic Bias: $16V DC through 600\Omega$

Gain Range: 0dB to +20dB per input.

-30dB to 0dB per output.

(+)

3.00

2.40

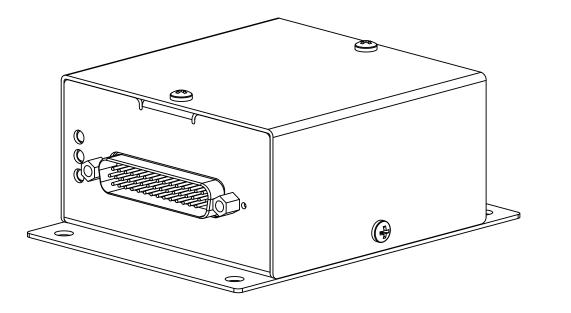
(+)

Ø0.188

3.00

WARNING: Mixer input low pins are connected to ground. Do not connect balanced audio sources that do not support grounding of audio low, such as speaker outputs on some stereo systems.

REV DESCRIPTION DATE APPROVA
A Sht 2: Modified Pin Assignment layout for legibility.



The G13045 AUDIO MIXING AMPLIFIER is designed for mixing aircraft audio signals, such as warning tones, navigational beacons, or CVR signals.

It has three separate mixing circuits, each combining up to four input signals to produce a single output signal. The output from each mixer can be connected to an input on the next to create a 10-channel mixer.

Each input has a selectable 600Ω resistor to ground or to a mic bias voltage, or can be set to unterminated input.

Each input has an adjustable gain from 0dB to 20dB, and the mixer output has an attenuation adjustment from -30dB to 0dB.

Each mixer circuit has a separate power supply and ground connection. All three mixers can be powered from the same supply by joining the three power pins.

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AVIATION AND SHALL NOT BE USED OR DUPLICATED BY ANYONE WITHOUT THE WRITTEN PERMISSION OF GENEVA AVIATION, INC.	PRO NO.	A182	^{sнт.} 1 OF 3	G13046	REV.

INSTALLATION:

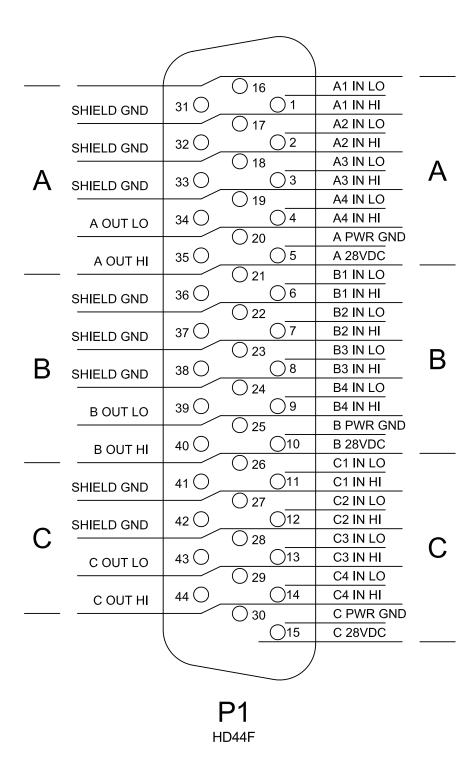
MOUNT TO AVIONICS SHELF OR OTHER LOAD RATED STRUCTURE USING:

- (4) #8-32 SCREWS (AN525-832R7)
- (4) WASHERS (NAS1149FN832P)
- (4) LOCKNUTS (MS21042L08)

UNIT IS NOT ENVIRONMENTALLY SEALED DO NOT MOUNT IN AREA EXPOSED TO WEATHER.

REVISION		
DESCRIPTION	DATE	APPROVAL
See Sheet 1 for Revision History		

EXTERNAL CONNECTOR PIN ASSIGNMENT

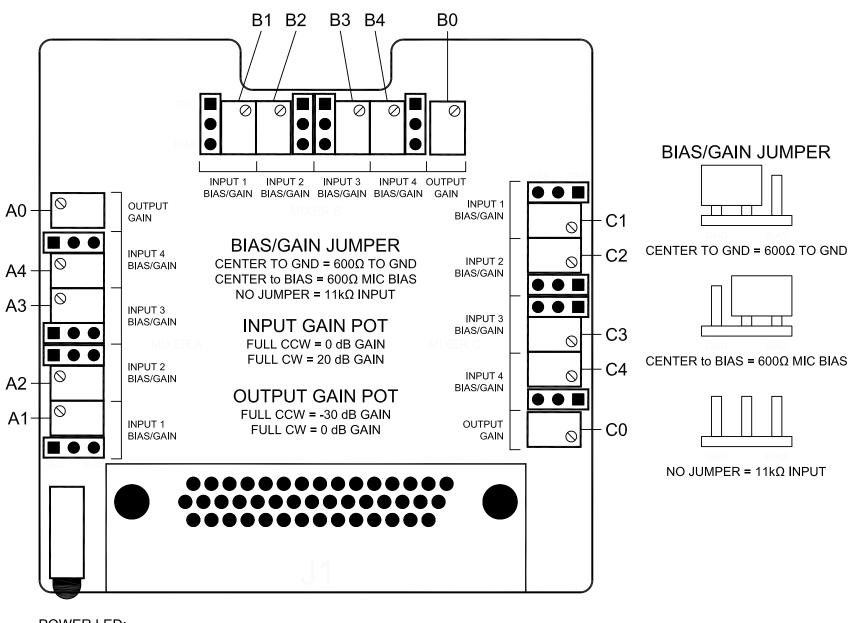


Connector: CONEC p/n 164X11969X Contacts: CONEC p/n 162A18419X Backshell: Kobiconn p/n 156-3025-EX

Optional Connector:
Positronics p/n DD44S10GE0
Contacts: Positronics p/n FC8022D2-15
or M39029/57-354

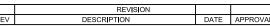
Optional: For installations with existing Positronics slide lock connector (ref DD44S10GVL0)
Replace jackscrews on mixer case with
Positronics V50 Lock Clips D9/370000V50.

INTERNAL ADJUSTMENT LOCATIONS

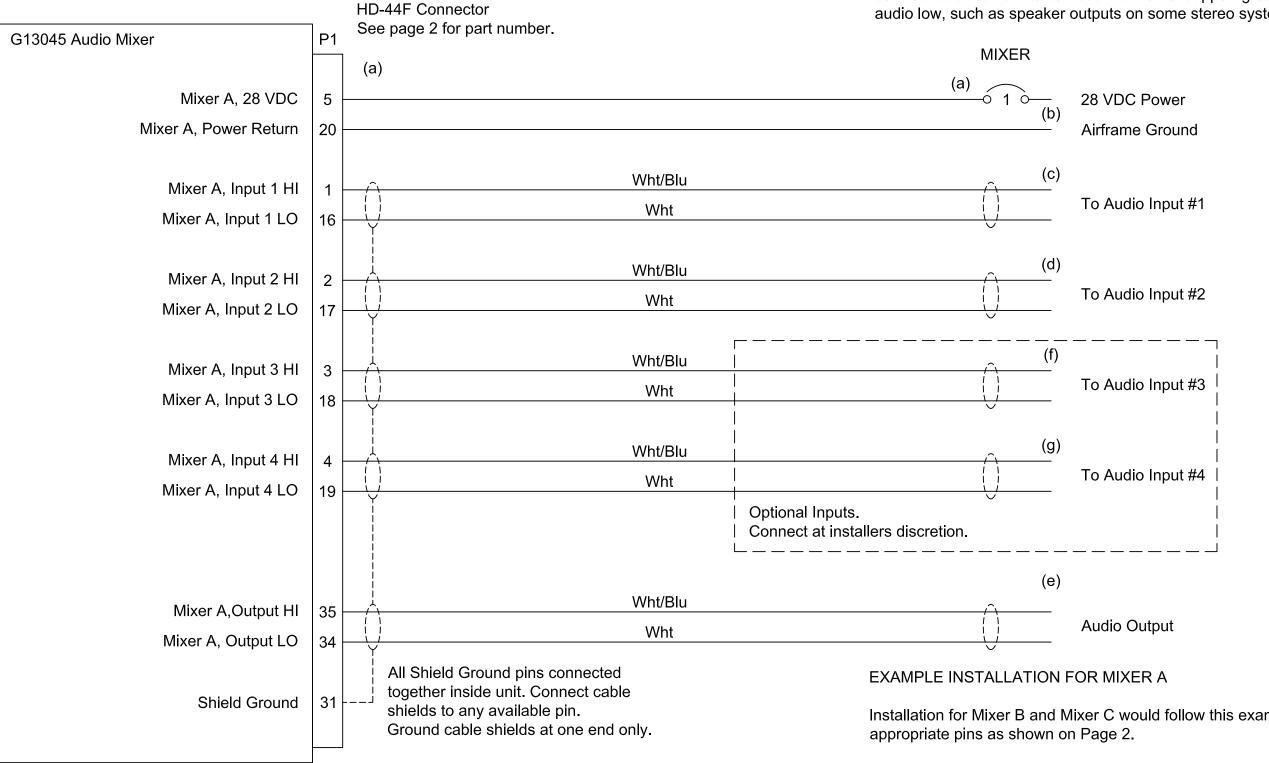


POWER LED: TOP - MIXER A MIDDLE - MIXER B BOTTOM - MIXER C

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NOTES:

Unless Otherwise Noted all Wire is 22 GA. Unless otherwise noted, all shielded wire is MIL-DTL-27500. All unshielded wire is MIL-W-22759 / 16. Bond Mixer case to airframe ground. All Bonding and Grounding will be I/A/W AC 43.13-1B, Chapter 11, Section 15. Installation for Mixer B and Mixer C would follow this example, using

All 3 mixers may be powered separately, or from one 1A breaker.

Mixers may be chained together by connecting output of one mixer to input of the next.

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